

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/575,580B

CRF Processing Date: 5/29/2002  
 Edited by: A  
 Verified by: A (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☒ Inserted mandatory headings, specifically: 2207 globally
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



1600

## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 12:26:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05292002\I575580B.raw

p6

```

3 <110> APPLICANT: McKeon, F.
4 Kayako, K.
5 Ryeom, S.
7 <120> TITLE OF INVENTION: CALCIPRESSINS: ENDOGENOUS INHIBITORS OF CALCINEURIN
8 USES AND REAGENTS RELATED THERETO
10 <130> FILE REFERENCE: HMV-048.01
12 <140> CURRENT APPLICATION NUMBER: 09/575,580B
13 <141> CURRENT FILING DATE: 2000-05-22
15 <160> NUMBER OF SEQ ID NOS: 45
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2484
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1
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26 aaccgtgcac atggcaagtt ctgaataaat ctcagctggt ggatataactt tttgttataa 120
27 ttactaacac ttctaacta gagagtaagc ctactctaag aaaaaatata actgtaattt 180
28 cacaacctcc aaagaaccca gtgcataaac agctaccatt tattaagcac tgactgaatt 240
29 cttagtaata tgtcttcatt tttttcagat gaggaaacta agattcagct tatttgtaca 300
30 agtagttaaa aagcaaagct gaaattcaga cccaagttct cactgtatca tactgtccaa 360
31 aaaagaattc tatttttcag gaagagacat gtctgtcac ttgaggctct cttatttttc 420
32 cgctattccc caaaggaaaag gggatgcttc ttaattcttt cgttatgtcc tattgtacat 480
33 agcatataat ggtaattcag aaaaattact tctaattaca taaattttca caatgggtata 540
34 gtgactaata cgtgaaata gaaaagtaag gcattgttat catgggtctag ttcagtcttt 600
35 attgcgacta tatctgataa tatacggtaa gcattctaacc acttgccagg ggccacagag 660
36 ccacagggag actatgtctc gcttaaattc ccaaaagtgg gcccctgtgc ttcaaaacgt 720
37 ccccgcatgg gaaccacaaa aacgttgcct cccagttat caccacaagg gcccaagaga 780
38 cgaggactct gcccgggctc ctccagctgg caccagctgt cagaaaagcg gaactgggga 840
39 cgaggacttt gccctaaac aacatggcg cctgaggct tgggcttgg ggcgccagaa 900
40 ggaaggctac gtgaagagaa ttccgttctt ttattggccc cgtctcctgg aagggcgggg 960
41 tacaataacc caacggcggc cggccttaaa ggggcacacg ttgatctgc cggtgccggg 1020
42 cctagggggc tggggggggg gtgcgcgcgc cgggcttctg cccctccgc gcggaacggg 1080
43 gacgggcggg gctggcgctg ggaggcctg tgcctgggag actgctgaca gcccgccgcc 1140
44 tgcgcgcgcg cgattccgag ggggttaacg ggggagcgc cggccggggc cggaccggag 1200
45 cgcgtgagc tcgggcgcgc aagcccgag cagcccgctg ggggcacag ggtcgcgcgc 1260
46 ggcgggggat ggaaggacgg gtggccgggc cccagctcgg ggcgcggcg gaggcggcg 1320
47 aggcggcgga ggcgcgagcg cggcccgggg tgacgctcgg gcccttcgg cccctctcgg 1380
48 gggcgagcga ggcgcgagcg ggcgcggggg actgagctt ctttctctga ttttctctga 1440

```

## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 12:26:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05292002\I575580B.raw

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53 gggacggcgc cccgaggggc cgggtccctc agcaccctcg gggcgcgcgg agctcactgc 1740
54 agagtcccac aggtctcgcc cggccccctg gtgcgcccag gctgggtgca ctaggggggg 1800
55 gaattcgctc cccaagggtg ggcagcgccg cggccccctg cgctctcgcc atcgccccgc 1860
56 atttactcgc tggaggaggg ggtcacctca ttctaggga ggaggaaaca gacattgagc 1920
57 ggcgacgtga ctacgtgttc ataaatagga cgacgtccct gcattcccaa tctgcactat 1980
58 tggagaagaaa gccaatgttt gggtagggat cgtgtgttgc tcattagcca gcggctggcc 2040
59 agttttgggtg gaattgtgtt ggggggaagg ggaccatctt tcagaccttt aggatattta 2100
60 gtcaagaacc ttgccccctt gtgtgaaggt gtggcttgcc gccatcgggg acaccagta 2160
61 catggggagt cgactccttc ccccgccctc ccccaacccc gcaaaatcca cacaatttag 2220
62 acacttttga ggttagggg caggtatgag taatcaataa tgggtgtggg gaggaagaat 2280
63 ttatttcaaa tctgcagtta ttgtgcagaa taaaatgttg acaacgtggg cgtcacagaa 2340
64 tgaaccgggt ctttgagaga tgccccatta ggagagcagc tgtcaaaaaa agcagtgtct 2400
65 tcagcgcttg gctgtgggtc cacaaatgct gtcaatgaac tatagttgaa ggctgtctgc 2460
66 aatacaacac cactgtgaaa caga                                     2484
69 <210> SEQ ID NO: 2
70 <211> LENGTH: 597
71 <212> TYPE: DNA
72 <213> ORGANISM: Mus musculus
74 <400> SEQUENCE: 2
75 atggaggagg tggatctgca ggacctgcg agcgccacca tcgcctgcca cctggaccgc 60
76 cgcgtgttcg tggacggcct gtgcggggcc aaatttgaat cctcttcag aacatatgac 120
77 aaggacacca ccttcagta ttttaagagc ttcaaacgtg tccggataaa cttcagcaac 180
78 ccttatctg cagccgatgc caggtgcggt ctgcacaaga ccgagttcct ggggaaggaa 240
79 atgaagtgtt attttgctca gactttacac ataggaaagt cacacctggc tccgccaat 300
80 cccgacaaac agttctcat ctccctcctg gcctctctc ccgttggtg gaaacaagta 360
81 gaagatgcca ccccgctcat aaattaagat cttttatatg ccactccaa gctggggcca 420
82 ggagagaagt atgaactgca tgcagcgaca gacccactc ccagtgtggt ggtccacgtg 480
83 tgtgagagt accaagagaa tgaggaggaa gaggaagaga tggagagaat gaagagacc 540
84 aagcccaaaa tcatccagac acggagaccg gagtacacac cgatccacct tagctga 597
87 <210> SEQ ID NO: 3
88 <211> LENGTH: 729
89 <212> TYPE: DNA
90 <213> ORGANISM: Mus musculus
92 <400> SEQUENCE: 3
93 gaattcgtcg acccagcgt cggccccgc gtcgccttg ggcagcaggc atctatccct 60
94 gaagatgggg gacttttctt cctctgctgc atagacagag actgggctgt cactcagtgt 120
95 ttgtgtgaag aqgccttcca aqcactcact gacttcagtg atctcccaa ctcatgttt 180
96 gctgcaatg ttaaccagtc tgtgtttgaa gaagaggaga gcaaggaaaa attcagggga 240
97 ctgttccgga cctatgatga atgtgtgagc ttccagctgt ttaagagtt ccgacgggtt 300
98 cgaataaatt tcagccatcc caaatctgca gcccgtgcc ggatagagct tcatgagact 360
99 cagttcagag gaaagaagct acccctctac ttgcgccagg tccagacccc agagacagat 420
100 ggagacaaac tgcatttggc acctccacag cctgccaac agttctcat ctacccccct 480
101 tcatctccat ctgttggtg gaagcctatc agcgatgcca caccagtct caactatgac 540
102 cttcttatg ctgtggccaa actaggacca ggagagaaat atgagctgca cgttggaaact 600
103 gagtctaccc cgagcgctgt ggtgcattgt tgtgacagcg acatggagag ggaggaggac 660
104 ccaaagactt ccccaagcc aaaaatcaat cagaccggc ggccgtggct gccacccttc 720
105 ggtcactga                                     729
108 <210> SEQ ID NO: 4

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## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 12:26:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05292002\I575580B.raw

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110 <212> TYPE: PRT
111 <213> ORGANISM: Mus musculus
113 <400> SEQUENCE: 4
114 Met Glu Glu Val Asp Leu Gln Asp Leu Pro Ser Ala Thr Ile Ala Cys
115   1           5           10           15
117 His Leu Asp Pro Arg Val Phe Val Asp Gly Leu Cys Arg Ala Lys Phe
118           20           25           30
120 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Thr Thr Phe Gln Tyr Phe
121           35           40           45
123 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
124           50           55           60
126 Ala Asp Ala Arg Leu Arg Leu His Lys Thr Glu Phe Leu Gly Lys Glu
127   65           70           75           80
129 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
130           85           90           95
132 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
133           100          105          110
135 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
136           115          120          125
138 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr
139           130          135          140
141 Glu Leu His Ala Ala Thr Asp Pro Thr Pro Ser Val Val Val His Val
142 145           150          155          160
144 Cys Glu Ser Asp Gln Glu Asn Glu Glu Glu Glu Glu Met Glu Arg
145           165          170          175
147 Met Lys Arg Pro Lys Pro Lys Ile Ile Gln Thr Arg Arg Pro Glu Tyr
148           180          185          190
150 Thr Pro Ile His Leu Ser
151           195
154 <210> SEQ ID NO: 5
155 <211> LENGTH: 242
156 <212> TYPE: PRT
157 <213> ORGANISM: Mus musculus
159 <400> SEQUENCE: 5
160 Glu Phe Val Asp Pro Arg Val Arg Pro Arg Val Arg Leu Gly Gln Gln
161   1           5           10           15
163 Ala Ser Ile Pro Glu Asp Gly Gly Leu Phe Phe Leu Cys Cys Ile Asp
164           20           25           30
166 Arg Asp Trp Ala Val Thr Gln Cys Phe Ala Glu Glu Ala Phe Gln Ala
167           35           40           45
169 Leu Thr Asp Phe Ser Asp Leu Pro Asn Ser Leu Phe Ala Cys Asn Val
170           50           55           60
172 His Gln Ser Val Phe Glu Glu Glu Glu Ser Lys Glu Lys Phe Glu Gly
173   65           70           75           80
175 Leu Phe Arg Thr Tyr Asp Glu Cys Val Thr Phe Gln Leu Phe Lys Ser
176           85           90           95
178 Phe Arg Arg Val Arg Ile Asn Phe Ser His Pro Lys Ser Ala Ala Arg
179           100          105          110

```

## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 12:26:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05292002\I575580B.raw

```

182          115          120          125
184 Leu Tyr Phe Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu
185          130          135          140
187 His Leu Ala Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro
188 145          150          155          160
190 Ser Ser Pro Ser Val Gly Trp Lys Pro Ile Ser Asp Ala Thr Pro Val
191          165          170          175
193 Leu Asn Tyr Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu
194          180          185          190
196 Lys Tyr Glu Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val Val
197          195          200          205
199 His Val Cys Asp Ser Asp Met Glu Arg Glu Glu Asp Pro Lys Thr Ser
200          210          215          220
202 Pro Lys Pro Lys Ile Asn Gln Thr Arg Arg Pro Gly Leu Pro Pro Phe
203 225          230          235          240

```

205 Gly His

209 &lt;210&gt; SEQ ID NO: 6

210 &lt;211&gt; LENGTH: 192

211 &lt;212&gt; TYPE: PRT

212 &lt;213&gt; ORGANISM: Homo sapiens

214 &lt;400&gt; SEQUENCE: 6

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215 Met Asp Cys Asp Val Ser Thr Leu Val Ala Cys Val Val Asp Val Glu
216 1          5          10          15
218 Val Phe Thr Asn Gln Glu Val Lys Glu Lys Phe Glu Gly Leu Phe Arg
219          20          25          30
221 Thr Tyr Asp Asp Cys Val Thr Phe Gln Leu Phe Lys Ser Phe Arg Arg
222          35          40          45
224 Val Arg Ile Asn Phe Ser Asn Pro Lys Ser Ala Ala Arg Ala Arg Ile
225          50          55          60
227 Glu Leu His Glu Thr Gln Phe Arg Gly Lys Lys Leu Lys Leu Tyr Phe
228 65          70          75          80
230 Ala Gln Val Gln Thr Pro Glu Thr Asp Gly Asp Lys Leu His Leu Ala
231          85          90          95
233 Pro Pro Gln Pro Ala Lys Gln Phe Leu Ile Ser Pro Pro Ser Ser Pro
234          100          105          110
236 Pro Val Gly Trp Gln Pro Ile Asn Asp Ala Thr Pro Val Leu Asn Tyr
237          115          120          125

```

```

239 Asp Leu Leu Tyr Ala Val Ala Lys Leu Gly Pro Gly Glu Lys Tyr Glu
240          130          135          140

```

```

242 Leu His Ala Gly Thr Glu Ser Thr Pro Ser Val Val Val His Val Cys
243 145          150          155          160

```

```

245 Asp Ser Asp Ile Glu Glu Glu Glu Asp Pro Lys Thr Ser Pro Lys Pro
246          165          170          175

```

```

248 Lys Ile Ile Gln Thr Arg Arg Pro Gly Leu Pro Pro Ser Val Ser Asn
249          180          185          190

```

```

255 <210> SEQ ID NO: 7
256 <211> LENGTH: 170
257 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 12:26:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\05292002\I575580B.raw

260 &lt;400&gt; SEQUENCE: 7

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261 Met Val Tyr Ala Lys Phe Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp
262   1           5           10           15
264 Ile Thr Phe Gln Tyr Phe Lys Ser Phe Lys Arg Val Arg Ile Asn Phe
265           20           25           30
267 Ser Asn Pro Phe Ser Ala Ala Asp Ala Arg Leu Gln Leu His Lys Thr
268           35           40           45
270 Glu Phe Leu Gly Lys Glu Met Lys Leu Tyr Phe Ala Gln Thr Leu His
271           50           55           60
273 Ile Gly Ser Ser His Leu Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu
274   65           70           75           80
276 Ile Ser Pro Pro Ala Ser Pro Pro Val Gly Trp Lys Gln Val Glu Asp
277           85           90           95
279 Ala Thr Pro Val Ile Asn Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu
280           100          105          110
282 Gly Pro Gly Glu Lys Tyr Glu Leu His Ala Ala Thr Asp Thr Thr Pro
283           115          120          125
285 Ser Val Val Val His Val Cys Glu Ser Asp Gln Glu Lys Glu Glu Glu
286           130          135          140
288 Glu Glu Met Glu Arg Met Arg Arg Pro Lys Pro Lys Ile Ile Gln Thr
289  145          150          155          160
291 Arg Arg Pro Glu Tyr Thr Pro Ile His Leu
292           165          170

```

295 &lt;210&gt; SEQ ID NO: 8

296 &lt;211&gt; LENGTH: 197

297 &lt;212&gt; TYPE: PRT

298 &lt;213&gt; ORGANISM: Cricetulus griseus

300 &lt;400&gt; SEQUENCE: 8

```

301 Met His Phe Arg Asp Phe Asn Tyr Asn Phe Ser Ser Leu Ile Ala Cys
302   1           5           10           15
304 Val Ala Asn Gly Asp Val Phe Ser Glu Ser Glu Thr Arg Ala Lys Phe
305           20           25           30
307 Glu Ser Leu Phe Arg Thr Tyr Asp Lys Asp Ile Thr Phe Gln Tyr Phe
308           35           40           45
310 Lys Ser Phe Lys Arg Val Arg Ile Asn Phe Ser Asn Pro Leu Ser Ala
311           50           55           60
313 Ala Asp Ala Arg Leu Gln Leu His Lys Thr Glu Phe Leu Gly Lys Glu
314   65           70           75           80
316 Met Lys Leu Tyr Phe Ala Gln Thr Leu His Ile Gly Ser Ser His Leu
317           85           90           95
319 Ala Pro Pro Asn Pro Asp Lys Gln Phe Leu Ile Ser Pro Pro Ala Ser
320           100          105          110
322 Pro Pro Val Gly Trp Lys Gln Val Glu Asp Ala Thr Pro Val Ile Asn
323           115          120          125
325 Tyr Asp Leu Leu Tyr Ala Ile Ser Lys Leu Gly Pro Gly Glu Lys Tyr
326           130          135          140
328 Glu Leu His Ala Ala Thr Asp Thr Thr Pro Ser Val Val Val His Val
329  145          150          155          160

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/575,580B

DATE: 05/29/2002  
TIME: 12:26:26

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\05292002\I575580B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; N Pos. 2410  
Seq#:28; Xaa Pos. 6  
Seq#:33; Xaa Pos. 1,2,3



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/575,580B

DATE: 05/29/2002

TIME: 10:49:52

Input Set : A:\09575580 Seq listing.txt

Output Set: N:\CRF3\05292002\I575580B.raw

Does Not Comply  
Corrected Diskette Needed.

3 <110> APPLICANT: McKeon, F.  
 4 Kayako, K.  
 5 Ryeom, S.  
 7 <120> TITLE OF INVENTION: CALCIPRESSINS: ENDOGENOUS INHIBITORS OF CALCINEURIN  
 8 USES AND REAGENTS RELATED THERETO  
 10 <130> FILE REFERENCE: HMV-048.01  
 12 <140> CURRENT APPLICATION NUMBER: 09/575,580B  
 13 <141> CURRENT FILING DATE: 2000-05-22  
 15 <160> NUMBER OF SEQ ID NOS: 45  
 17 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

1033 <210> SEQ ID NO: 36  
 1034 <211> LENGTH: 24  
 1035 <212> TYPE: PRT  
 1036 <213> ORGANISM: Artificial Sequence  
 W--> 1037 <220> FEATURE: ← insert  
 1037 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
 1038 construct  
 E--> 1040 <400> SEQUENCE: 36  
 1041 Met Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Ala Pro Pro Lys  
 1042 1 5 10 15  
 1044 Lys Lys Arg Lys Val Ala Gly Phe  
 1045 20  
 1084 <210> SEQ ID NO: 38  
 1085 <211> LENGTH: 24  
 1086 <212> TYPE: PRT  
 1087 <213> ORGANISM: Artificial Sequence  
 W--> 1088 <220> FEATURE: ← insert  
 1088 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic  
 1089 construct  
 E--> 1091 <400> SEQUENCE: 38  
 1092 Met Glu Pro Val Asp Pro Arg Leu Glu Trp Lys His Pro Gly Ser  
 1093 1 5 10 15  
 1095 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe  
 1096 20 25 30



## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 10:49:52

Input Set : A:\09575580 Seq listing.txt

Output Set: N:\CRF3\05292002\I575580B.raw

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1105 65 70
1201 <210> SEQ ID NO: 40
1202 <211> LENGTH: 303
1203 <212> TYPE: PRT
1204 <213> ORGANISM: Artificial Sequence
W--> 1205 <220> FEATURE: Construct
1205 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
1206 construct
OK 1208 <400> SEQUENCE: 40
1209 Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val Pro Arg
1210 1 5 10 15
1212 Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
1213 20 25 30
1215 Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
1216 35 40 45
1218 Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
1219 50 55 60
1221 Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
1222 65 70 75 80
1224 Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
1225 85 90 95
1227 Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
1228 100 105 110
1230 Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg Val Ala
1231 115 120 125
1233 Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
1234 130 135 140
1236 Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
1237 145 150 155 160
1239 Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
1240 165 170 175
1242 His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
1243 180 185 190
1245 Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
1246 195 200 205
1248 Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
1249 210 215 220
1251 Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr
1252 225 230 235 240
1254 Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn
1255 245 250 255
1257 Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala Thr Ala
1258 260 265 270
1260 Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro Arg Ala
1261 275 280 285
1263 Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro Val Glu Glu Phe
1264 290 295 300

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## RAW SEQUENCE LISTING

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 10:49:52

Input Set : A:\09575580 Seq listing.txt

Output Set: N:\CRF3\05292002\I575580B.raw

1297 &lt;212&gt; TYPE: PRI

1298 &lt;213&gt; ORGANISM: Artificial Sequence

W--> 1299 <220> FEATURE: *Insert*

1299 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: synthetic

1300 construct

OK-&gt; 1302 &lt;400&gt; SEQUENCE: 42

1303 Met Asp Val Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser

1304 1 5 10 15

1306 Arg Pro Thr Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro

1307 20 25 30

1309 Arg Arg Pro Val Glu Glu Phe

1310 35

## VERIFICATION SUMMARY

DATE: 05/29/2002

PATENT APPLICATION: US/09/575,580B

TIME: 10:49:53

Input Set : A:\09575580 Seq listing.txt

Output Set: N:\CRF3\05292002\1575580B.raw

L:863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:2400  
L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:1037 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36  
L:1040 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:36  
L:1088 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:38  
L:1091 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:38  
L:1205 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40  
L:1208 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:40  
L:1299 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:42  
L:1302 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:42